

EMERGENCY SUPPORT FUNCTION 3 PUBLIC WORKS AND ENGINEERING

PRIMARY AGENCY: Washington State Department of General Administration

SUPPORT AGENCIES: Washington State Conservation Commission
Washington State Department of Ecology
Washington State Office of Financial Management
Washington State Department of Fish and Wildlife
Washington State Department of Labor and Industries
Washington State Department of Licensing
Washington State Military Department
Emergency Management Division
National Guard
Washington State Department of Natural Resources
Washington State Parks and Recreation Commission
Washington State Patrol
Washington State Department of Transportation
All Other State Agencies
Federal Emergency Management Agency
U.S. Army Corps of Engineers

I. INTRODUCTION

A. Purpose

The purpose of Emergency Support Function (ESF) 3 is twofold:

1. To provide public works and engineering support to assist the state in meeting needs related to response and recovery, and;
2. To provide for the demolition of unsafe structures, debris and wreckage clearance, temporary repair of essential facilities, and the inspection of facilities for structural condition and safety.

B. Scope

Support includes technical advice and evaluations, engineering services, construction management and inspection, emergency contracting, emergency repair of water and wastewater facilities, provision of potable water, and provision of emergency power. Activities within the scope include:

1. Participation in mitigation and preparedness activities.
2. Participation in needs and damage assessment immediately following the event.
3. Emergency clearance of debris to allow for reconnaissance of the damaged areas and passage of emergency personnel and equipment for

lifesaving, life protecting, and health and safety purposes during response activities.

4. Removal of debris from public streets and roads.
5. Temporary repair or replacement of emergency access routes. Routes include damaged streets, roads, bridges, ports, waterways, airfields, and any other facilities necessary for passage of rescue personnel.
6. Emergency restoration of critical public facilities including temporary restoration of water supply and wastewater treatment systems.
7. Emergency demolition or stabilization of damaged structures and facilities. These damaged structures are designated by state and local jurisdictions as immediate hazards to the public health and safety, or as necessary to facilitate the accomplishment of life saving operations.
8. Emergency contracting to support public health and safety.
9. Technical assistance including structural inspection of private residences, commercial buildings, and structures, as resources permit.
10. Assisting in the preparation of internal Department of General Administration (GA) Project Worksheets (PWs) and Preliminary Damage Assessments (PDAs) as required.
11. Supporting other ESFs as outlined in the *Washington State Comprehensive Emergency Management Plan (CEMP)*.

II. POLICIES

Revised Code of Washington (RCW) 43.19.450, Department of General Administration, Engineering and Architecture.

III. SITUATION

A. Emergency/Disaster Conditions and Hazards

An emergency or disaster may cause unprecedented property damage. Structures may be destroyed or severely weakened. Homes, public buildings, bridges, and other facilities may have to be reinforced or demolished to ensure safety. Debris may make streets and highways impassable. Public utilities may be damaged and be partially or totally inoperable. A large event may affect the lives of many state and local jurisdiction response personnel, and prevent them from performing their prescribed emergency duties. Similarly, equipment in the immediate event area may be damaged or inaccessible. Sufficient resources may not be available to state and local jurisdictions to meet emergency requirements. Federal assistance may be required to identify and deploy

resources from outside the affected area to ensure a timely, efficient, and effective response and recovery from the event.

B. Planning Assumptions

1. Access to the event area will be dependent upon the establishment of ground and water routes.
2. Debris clearance and emergency road repairs will be given priority to support immediate lifesaving emergency response activities.
3. Rapid assessment of the event area will be made to determine critical response time and potential workload.
4. Emergency environmental waivers and legal authority will be granted to dispose of materials from debris clearance and demolition activities. Local jurisdiction authorities will obtain the required waivers and clearances.
5. Significant numbers of personnel with engineering and construction skills and construction equipment will be available from outside the event area.
6. Support agencies will perform tasks under their own authorities as applicable, in addition to tasking received under the authority of the state CEMP.
7. Previously inspected structures will require re-evaluation if after-shocks occur following an earthquake.

IV. CONCEPT OF OPERATIONS

A. General

The GA will actively support state and local jurisdiction response and recovery activities. Close coordination will be maintained with federal, state, and local jurisdiction officials to determine potential tasks. The priority of tasks will be determined jointly between federal and state officials. The ESF 3 Team will provide damage information to the ESF 5, Information Analysis and Planning Team for overall damage assessment. The ESF 3 team will collocate personnel at the Washington State Military Department, Emergency Management Division's (EMD), Emergency Operations Center (EOC) to coordinate support, as necessary.

B. Organization

The Engineering and Architectural Services Division of GA is responsible for the coordination of this ESF. The division is responsible to provide public works and engineering assistance, as resources permit, to meet state needs related to emergencies and disasters.

C. Procedures

See Washington State Department of General Administration Disaster Plan, Internal Emergency Operating Procedures.

D. Mitigation Activities

1. Primary Agency

Washington State Department of General Administration

- a. Provides staff preparedness training that focuses on the office, home, and family for emergencies or disasters.
- b. Identifies and mitigates the effects of hazards at home and in the work place to minimize damage, injury, and disruption following an event.
- c. Ensures that field personnel have proper protection and equipment available in advance of an event.

2. Support Agencies

Washington State Conservation Commission

Takes actions to reduce or eliminate the effects of emergencies or disasters on renewable natural resources.

3. All Other State Agencies

- a. Provides staff preparedness training that focuses on the office, home, and family for emergencies or disasters.
- b. Identifies and mitigates the effects of hazards at home and in the workplace to minimize damage, injury, and disruption following an event.

E. Preparedness Activities

1. Primary Agency

Washington State Department of General Administration

- a. Develops policies and procedures for emergency response and recovery personnel deployment and communications activities.
- b. Maintains liaison with state support agencies, the U.S. Army Corps of Engineers, and other federal representatives.
- c. Trains Engineering and Architectural Services (E&AS) staff in emergency procedures.

- d. Trains E & AS licensed professional staff for Post Earthquake Safety Analysis of Buildings (ATC-20 training).
- e. Develops, maintains, and distributes a statewide database of architects, engineers, contractors, and equipment supplies that can provide support during emergencies or disasters.
- f. Develops, maintains, and distributes a phone notification list and communications process for rapid contact of key division, department and support agency personnel.
- g. Conducts periodic training and exercises and participates in statewide drills and exercises.

2. Support Agencies

Washington State Departments of Ecology, Fish and Wildlife, Labor and Industries, Licensing, Military Department, Natural Resources, Washington State Patrol, Transportation, Office of Financial Management, Conservation Commission, Parks and Recreation Commission, All Other State Agencies, Federal Emergency Management Agency, and the U.S. Army Corps of Engineers

Takes those actions necessary to assure their staff is prepared to accomplish their response and recovery activities.

3. All Other State Agencies

Takes those actions necessary to assure their staffs are prepared to accomplish their internal agency response and recovery activities for ESF 3, PDAs and reports, and facilities.

F. Response Activities

1. Primary Agency

Washington State Department of General Administration

- a. Provides trained personnel to conduct post earthquake safety analysis of buildings.
- b. Provides personnel for internal and external PDA Teams.
- c. Activates the Emergency Contracting Desk.
- d. Coordinates with support agencies to supply requested services and resources.
- e. Contracts with architects, engineers, contractors, and equipment suppliers to provide requested services and equipment.

- f. Participates on internal PW Teams to conduct inspections of GA facilities.
- g. Provides initial damage estimates on other state buildings and facilities as a member of the PDA Team, as resources permit.

2. Support Agencies

a. Washington State Department of Corrections

- (1) Conducts initial damage assessments and estimates.
- (2) Provides security of facilities and facility property.
- (3) Coordinates or conducts debris removal and facility property clearance.
- (4) Provides bulldozers, trucks, and other heavy equipment in an emergency or disaster.
- (5) Provides liaison officers to the state EOC and the Department of Corrections (DOC) Headquarters Command Center.

b. Washington State Department of Ecology

- (1) Investigates spills and pollution causes.
- (2) Provides flood control, dam safety, debris removal from rivers and lakes, and assessment and condition reports for flood control facilities such as dams, dikes, drainage, sanitary sewage systems.
- (3) Monitors water contamination.

c. Washington State Office of Financial Management

Specifies and communicates funding of the emergency response and recovery activities.

d. Washington State Department of Fish and Wildlife

- (1) Provides water trucks.
- (2) Conducts initial damage assessment estimates.
- (3) Conducts internal PDA Team, and PW Team Reports.
- (4) Provides hydraulics permit requirements.

- (5) Supplies aerial reconnaissance.

e. Washington State Department of Labor and Industries

- (1) Examines electrical installations, boilers, pressure vessels, and manufactured housing.
- (2) Assures safety compliance for response and recovery activities.
- (3) Supplies laboratory services and equipment to detect hazardous materials.

f. Washington State Department of Licensing

- (1) Verifies licenses of professional and technical personnel assisting in response and recovery activities.
- (2) Provides licensee information as necessary.

g. Washington State Military Department

(1) Emergency Management Division

Maintains the state EOC in a fully operational status.

(2) National Guard

- (a) Provides transportation of key personnel.
- (b) Provides security, as requested.
- (c) Supplements state emergency communications.
- (d) Provides aerial reconnaissance.
- (e) Participates in the conduct of initial damage assessment estimates as a member of the PDA Team, and the PW Team.
- (f) Supplies limited power generation.
- (g) Provides water purification.

h. Washington State Department of Natural Resources

- (1) Tasks personnel, as necessary, to accomplish support responsibilities.
- (2) Provides initial non-fire-related emergency or damage assessment estimates on facilities and lands managed by

the Department of Natural Resources (DNR) as a member of the PDA Team.

- (3) Participates on PW Teams to conduct inspections of DNR's facilities and lands, as well as other state and local facilities damaged by an emergency or disaster.
- (4) Coordinates or conducts debris removal, land reclamation, and road reconstruction of DNR's administered and/or protected lands.
- (5) Provides aerial reconnaissance, as requested.
- (6) Provides bulldozers, trucks, and other heavy equipment in an emergency or disaster.
- (7) Provides liaison officers to the state EOC and DNR EOC.
- (8) Supplies bulldozers, trucks, and other heavy equipment.

i. Washington State Department of Transportation

- (1) Reconstructs, repairs, and maintains the state transportation system. Designates alternate routes in coordination with local jurisdictions and ports.
- (2) Coordinates the mobilization of personnel and equipment required for engineering services that support the transportation system.
- (3) Maintains liaison with the Washington State Chapter of the Association of General Contractors, the Association of General Contractors of America and construction and equipment rental companies.
- (4) Conducts damage assessments of the state's transportation system and facilities as a member of the internal PDA Team.
- (5) Conducts damage assessments on non-state transportation system facilities as a member of the internal PDA Team, as personnel become available.
- (6) Conducts inspections of the state's transportation system and facilities as a member of the internal PW Team.

j. Washington State Parks and Recreation Commission

Participates in the conduct of initial damage assessment estimates as a member of the PDA Team and the PW Team.

k. Washington State Patrol

- (1) Provides emergency communications.
- (2) Provides security.
- (3) Provides aerial reconnaissance.

l. Federal Emergency Management Agency

- (1) Provides liaison personnel, the Advance Emergency Response Team, to the state EOC.
- (2) Provides support to the state as required and establishes response and recovery priorities in coordination with the state.
- (3) Coordinates with state and local jurisdictions to maximize the use of available regional assets and identifies resources required from outside the region.
- (4) Provides damage assessments and reports to the state EOC, U.S. Army Corps of Engineers and the FEMA Regional Operations Center (ROC).
- (5) Provides Situation Reports (SITREPs) to the state EOC.
- (6) Establishes communications with the U.S. Corps of Engineers and other federal agencies.
- (7) Utilizes designated support agencies.
- (8) Executes assigned ESF 3 missions.
- (9) Supports other ESFs as necessary.
- (10) Provides administrative support, mapping, communications, equipment, and personnel to ESF 3.
- (11) Provides public affairs support to the Joint Information Center (JIC) and Congressional Liaison Officer.

m. U.S. Army Corps of Engineers

- (1) Provides liaison personnel, the Advance Emergency Response Team, to the state EOC.
- (2) Provides support to the state as required and establishes response and recovery priorities in coordination with the state.

- (3) Coordinates with state and local jurisdictions to maximize the use of available regional assets and identifies resources required from outside the region.
- (4) Provides damage assessments and reports to the state EOC, U.S. Army Corps of Engineers and the FEMA ROC.
- (5) Provides SITREPs to the state EOC.
- (6) Establishes communications within the U.S. Corps of Engineers' channels and with other federal agencies.
- (7) Utilizes designated support agencies.
- (8) Executes assigned ESF 3 missions.
- (9) Supports other ESFs, as necessary.
- (10) Provides administrative support, mapping, communications, equipment, and personnel to ESF 3.
- (11) Provides public affairs support to the JIC and Congressional Liaison Officer.
- (12) Maintains fiscal controls, accounting, and timekeeping for mission assignments.
- (13) Assures there is physical and fiscal closure on response and recovery activities.

n. All State Agencies

- (1) Provides public information officer support to the Office of the Governor, the state EMD, the state EOC, or the lead state agency during response and recovery activities.
- (2) Participates in the conduct of initial internal facility damage assessments, and reports damage estimates to the state EOC.

G. Recovery Activities

Primary and Support Agencies

Continues with response and recovery activities until completed.

V. RESPONSIBILITIES

A. Primary Agency

Washington State Department of General Administration

Coordinates the public works and engineering support to the state and local jurisdictions for the demolition of unsafe structures, debris and wreckage clearance, temporary repair of essential facilities and the inspection of facilities during or following an emergency or disaster.

B. Support Agencies

Washington State Departments of Ecology, Fish and Wildlife, Labor and Industries, Licensing, Military Department, Natural Resources, Washington State Patrol, Transportation, Office of Financial Management, Conservation Commission, Parks and Recreation Commission, All Other State Agencies, Federal Emergency Management Agency, and the U.S. Army Corps of Engineers

Assists the Department of General Administration in providing public works and engineering support during an emergency or disaster.

VI. RESOURCE REQUIREMENTS

See Washington State Department of General Administration Disaster Plan.

VII. REFERENCES

See Washington State Department of General Administration Disaster Plan.

VIII. DEFINITIONS AND ACRONYMS

See CEMP Basic Plan, Appendix 4.